



Facts on formwork panels:

Wood types

- Spruce / Fir

Thicknesses

- 21 mm
- 27 mm

Formats

- Up to 600 x 200 cm

Product standard

- According to Austrian standard B 3023

Surfaces

- Seamlessly sanded surfaces
- Resistant melamine coating
- PU edge seal

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Exceeding your expectations

K1 yellowplan is the concrete formwork panel of the Mayr-Melnhof Kaufmann Group. It is used where maximum quality, durability and a perfect concrete finish are required.

The K1 yellowplan is manufactured at the Reuthe factory in Bregenzerwald, Austria and delivered on time to your subsidiary or - upon request - directly to the construction site.

The legendary K1 yellowplan has been produced for over 50 years. From the outset the new process was regarded as a true pioneering success. The K1 yellowplan has been manufactured on an industrial production line since the 80s. Even today the unique quality and high stability of this 3-ply formwork panel is still impressive.



At a glance

- Almost no splits thanks to the narrow lamella widths used for the edge-glued outer panels, not even after multiple uses.
- The special PU-edge seal prevents the penetration of moisture and adherence of concrete sludge on the edge of the panel.
- The entire surface is fully sanded and coated with a resistant melamine resin. This results in a fine concrete pore structure which is responsible for the unique appearance of the concrete.
- Thanks to the continuous intermediate layers, the longitudinal edges do not wear out, not even as a result of heavy mechanical strains.

Many areas of application

- Ceiling formworks
- Wall formworks
- Bridge formworks
- Tunnel formworks
- Special formworks
- Scaffolding
- Working platforms





Engineered, 3-ply panels in highest quality

The K1 yellowplan formwork panel is manufactured in a jumbo size of 600 x 200 cm with thicknesses of 21 and 27 mm and then cut to the common formats with a width of 50 cm and lengths of between 100 to 300 cm.

The closed outer layers of the K1 panel composed of mostly vertical grain wood, connected with a full size, edge-glued middle layer demonstrate a tremendous stability and guarantee the clean concrete appearance.



Austrian standard B 3023

Three-ply solid wood panels



PEFC

Chain of Custody



ISO 9001

Quality management

Product Three-ply concrete formwork panel with smooth surface and melamine coating according to Austrian standard B 3023 «solid wood panels».

Wood types Spruce, fir, a mixture of wood types is permitted

Wood moisture 12% +/- 3% at the time of delivery

Gluing According to Austrian standard B 3023 (AW 100)

Weight 21 mm approx. 10,0 kg / m²
27 mm approx. 12,5 kg / m²

Layout

- Manufactured as jumbo format panels; smaller formats are cut to exact specifications from jumbo formats
- Locked, glued crosswise
- Fully enclosed, laminated top and intermediate layers, no concealed edge bands
- Top layers predominantly showing vertical growth rings, no clamps
- Seamlessly glued intermediate layer, ensures that the longitudinal edges do not tear off
- Seamlessly sanded surfaces
- Resistant melamine coating
- Water repellent edge seal

Formats	Standard formats (length x width in cm)	Jumbo formats (length x width in cm)
	100 x 50	400 x 50 / 100 / 150 / 200
	150 x 50	500 x 50 / 100 / 150 / 200
	200 x 50 / 100	600 x 50 / 100 / 150 / 200
	250 x 50 / 100	
	300 x 50 / 100	

Thicknesses 21 and 27 mm

Surface quality

- Seamlessly sanded surfaces
- Resistant melamine coating of approximately 130 g per m² and side

Edge seal → Water repellent edge seal, yellow → PU edge seal, red

Packaging Packaging: 50 pieces of 21 mm and 40 pieces of 27 mm thickness

- Delivered suitable for the construction site, protected by integrated supporting timber
- Upon request the packages will be wrapped in plastic foil. A surcharge applies.
- The package units for jumbo formats are subject to arrangement



Dimensional tolerances

Thicknesses	21 und 27 mm	+ / - 1 mm
Widths	50 ≤ 200 cm	+ / -1 mm
Lengths	100 ≤ 250 cm	+ / -1 mm
	300 ≤ 600 cm	+ / -2 mm
Longitudinal curvature	100 ≤ 300 cm	+ / -1 mm
	301 ≤ 600 cm	+ / -1,5 mm
	Widths < 50 cm	+ / -1 ‰

According to Austrian standard B 3023

Material properties

Material properties	21 mm	27 mm	Minimum values acc. Ö-Norm B 3023
Bending strength	40 N / mm ²	35 N / mm ²	22 N / mm ²
Modulus of elasticity (average)	10.000 N / mm ²	10.000 N / mm ²	10.000 N / mm ²

The design values apply at a wood moisture content of 12%. The bending strength and modulus of elasticity may be up to 30% lower with heavy moisture penetration up to the fibre saturation point.

Description of quality K1 yellowplan are manufactured in accordance with Austrian standard B 3023 «solid wood panels, 3-ply concrete formwork panels – types and requirements»:

1. Quality specifications For the top layers of 3-ply concrete formwork panels

Lamella widths	Minimum: 30 mm, maximum: 45 mm
Wood types	Spruce (picea), fir (abies); a mixture of wood types is permitted.
Edge finish lamella	Parallel or conically sawn and sharp-edged. Small amounts of wane are permitted on the side facing the intermediate layer, provided they do not extend over the entire length.
Surface	The top layers must be smooth (GL) or textured (STR) prior to surface tempering. The individual small boards of the top layer need to be arranged tightly next to one another. Isolated seams up to 500 mm in length and 1 mm in width are permitted if they are filled in with the surface coating.
Plugs	Plugs may be used for repairing wooden defects. The plugs are carefully processed and well glued. Plug size: max. 40 mm in diameter. A maximum of 15 plugs is permitted per m ² and side.
Gluing	Gluing between the top and intermediate layers must be in accordance with the requirements outlined in section 4.4.
Knots	Knots up to 20 x 40 mm are permitted. Healthy, intergrown knots up to 40 x 80 mm. Isolated knot holes up to 5 mm in diameter are permitted (up to 10 mm for type STR).
Discolouration, fungal infestation	Discolouration up to a maximum of 20% of the surface per side is permitted. Decay is not permitted.
Compression wood	Strips of light compression wood are permitted.
Splits	Splits with a maximum gradient of 1:10 to 1 mm in width and up to 500 mm in length are permitted. They must be filled in with the surface coat (with the exception of type STR).
Pitch pockets	Pitch pockets up to a max. of 5 x 50 mm are permitted (for type STR: max. 10 x 100 mm).
Ring shake	Not permitted
Insect infestation, worm holes	Insect infestation is not permitted. Isolated small worm holes are permitted.

2. Quality specifications For the intermediate layer of 3-ply concrete formwork panels

Lamella widths	Maximum width of strips or lamellas: 50 mm
Wood types	Spruce (picea), fir (abies), pine (pinus), larch (larix); a mixture of wood types is permitted.
Edge finish lamella	The edges are virtually sharp-edged at the ends and at the long side of the panels. Isolated rough edges up to 5 mm are permitted in the covered areas.
Discolouration, fungal infestation	Discolouration is permitted, decay is not permitted.